PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S.Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

ction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Under the Paperwork Seauction Act of 1995, no persons are required to respond									
Substitute for form 1449A/PTO					Complete if Known				
					Application Number		10/597,635		
INFORMATION DISCLOSURE					Filing Date	ng Date August 2, 2006		2006	
9	STAT	TEMENT BY A	PPI	LICANT	First Named Inventor	0	mer EIN	IAV	
(use as many sheets as necessary)					Art Unit	N	ot Yet A	vailable	
					Examiner Name	N	ot Yet A	vailable	
Sheet	neet 1 of		of	5 Attorney Docket Number		per 34	34636		
				U.S. PATENT I	OCUMENTS				
Examiner Initials*	Cite No. 1	Number-Kind Code ^{2 (if known)}		Publication Date DD-MMM-YYYY	Name of Patentee or Applicant of Cited Document			Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	1	US-2002/0064438		30-May-2002	Osborne Jr.				
	2	US-2003/0032524		13-Feb-2003	Lamar et al.				
	3	US-2003/0199370		23-Oct-2003	Bucay-Bissu				
	4	US-2004/0172097		02-Sep-2004	Brodard et al.				
	5	US-2004/0180768		16-Sep-2004	Almada				
	6	US-2004/0245838		09-Dec-2004	Chiu				
	7	US-2005/0261114		24-Nov-2005	Heitzman et al.				
	8	US-2006/0229164		12-Oct-2006	Einav				
	9	US-2006/0277074		07-Dec-2006	Einav et al.				
	10	US-2006/0293617		28-Dec-2006	Einav et al.				
	11	US-2007/0299371		27-Dec-2007	Einav et al.				
	12	US-3,919,691		11-Nov-1975	Noll				
	13	US-4,499,900		19-Feb-1985	Petrofsky et al.				
	14	US-4,582,049		14-Apr-1986	Ylvisaker				
	15	US-4,724,842		16-Feb-1988	Charters et al.				
• **	16	US-4,921,244		01-May-1990	Berroth	_			
	17	US-4,936,299		26-Jun-1990	Erlandson				
	18	US-5,048,826		17-Sep-1991	Ryan				
	19	US-5,070,873		10-Dec-1991	Graupe et al.				
	20	US-5,193,539		16-Mar-1993	Schulman et al.				
	21	US-5,193,540	$\neg \uparrow$	16-Mar-1993	Schulman et al.				
	22	US-5,211,161		18-May-1993	Stef	_			
	23	US-5,244,441		14-Sep-1993	Dempster et al.			 -	
	24	US-5,269,318		14-Dec-1993	Nashner				
	25	US-5,312,439		17-May-1994	Loeb				
	26	US-5,324,316		28-Jun-1994	Schulman et al.				
	27	US-5,391,128		21-Feb-1995	DeBear				
	28	US-5,397,865		14-Mar-1995	Park	-	<u> </u>		
	29	US-5,405,367		11-Apr-1995	Schulman et al.				
Examine		1 00-3,403,307		11 /1pi 1//5		Date			

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

Considered

Signature

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Applicant's unique citation designation number (optional).

² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English language translation is attached.

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449A/PTO Application Number 10/597,635 INFORMATION DISCLOSURE August 2, 2006 Filing Date STATEMENT BY APPLICANT Omer EINAV First Named Inventor Not Yet Available Art Unit (use as many sheets as necessary) Examiner Name Not Yet Available 34636 Of Attorney Docket Number Sheet 2 **U.S. PATENT DOCUMENTS** Name of Patentee or Pages, Columns, Lines, Where Document Number Examiner Cite Applicant of Cited Document Relevant Passages or Relevant Initials' No. Figures Appear Number-Kind Code² (if known) 03-Oct-1995 30 US-5,454,774 **Davis** 31 US-5,466,213 14-Nov-1995 Hogan et al. 32 US-5,476,103 19-Dec-1995 Nahsner 19-Dec-1995 33 US-5,476,428 Potash et al. 02-Sep-1997 US-5,662,693 Johnson et al. 34 US-5,690,389 25-Nov-1977 Ekman et al. 35 US-5,836,304 17-Nov-1998 Kellinger et al. 36 37 08-Dec-1998 Bizzi et al. US-5,846,086 06-Jun-1999 Horowitz et al. 38 US-5,919,115 21-Sep-1999 Jourtas et al. 39 US-5,954,621 14-Mar-2000 Rogozinski 40 US-6,035,465 41 US-6,051,017 18-Apr-2000 Loeb et al. 42 US-6,057,828 02-May-2000 Rosenberg et al. US-6,061,004 09-May-2000 Rosenberg et al. 43 12-Jun-2001 Blumenkranz et al. 44 US-6,246,200 07-Aug-2001 Dean Jr. et al. 45 US-6,270,445 12-Nov-2002 Hunter 46 US-6,478,721 11-Nov-2003 Martin et al. 47 US-6,645,126 10-Aug-2004 Even-Zohar 48 US-6,774,885 07-Dec-2004 49 US-6,829,510 Nathan et al. FOREIGN PATENT DOCUMENTS Examiner Cite Pages, Columns, Lines, Publication Date Name of Patentee or Foreign Patent Documents Initials* Where Relevant Passages DD-MMM-YYYY Applicant of Cited Document or Relevant Figures Appear Country Code³ Number⁴ Kind Code⁵ (if known) 50 16-Apr-1990 Yokogawa JP 02-102652 01-Mar-1989 Futakami 51 EP 0304538 09-Sep-1998 Riva Violetta et al. EP 0862930 52 21-Sep-1999 Aoki JP 11-253504 53 08-May-2002 Kawakami JP 2002-127058 54 10-Jun-2003 Yoshihiro et al. 55 JP 2003-164544 21-Nov-2002 Brodard et al. PCT WO 02/092164 56 57 PCT WO 02/13673 21-Feb-2002 Kotlik et al. 17-Jun-2004 Koeneman et al. 58 PCT WO 2004/050172 59 PCT WO 2005/074369 18-Aug-2005 Einav

Date

Considered

xaminer

Signature

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional).

² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

	Ur	der the Paperwork Reduction Act of	1995, no per	sons are require		a collection of information ur	iless it con			
Substitute for form 1449A/PTO						Complete if Known				
					Application Number		10/597,635			
_		RMATION DISC			Filing Date		August 2, 2006			
	STA.	FEMENT BY APP	LICAN	1T	First Named Inventor			EINAV		
	(1	use as many sheets as nec	essary)		Art Uni	Art Unit		et Available		
					Examin	Examiner Name		Not Yet Available		
Sheet		3	Of	5	Attorne	y Docket Number	34636			
			FOREI	GN PATE	NT DOC	UMENTS	-			
Examiner Cite Initials* No.		Foreign Patent Docum	Public	ation Date	Name of Patentee of Applicant of Cited Docu		Pages, Columns, Lines, Where Relevant Passages	T		
		Country Code ³ - Number ⁴ - Kind C	ode ⁵ (if know					or Relevant Figures Appear		
	60	PCT WO 2005/074370			ig-2005	Einav			Щ	
	61	PCT WO 2005/074371			ıg-2005	Einav et al.			Ш	
	62	PCT WO 2005/074372			ıg-2005	Einav et al.			\perp	
	63	PCT WO 2005/074373		18-Au	ig-2005	Einav et al.			$oxed{oxed}$	
	64	PCT WO 2005/075155			ig-2005	Einav			1	
	65	PCT WO 2005/086574			p-2005	Einav et al.				
	66	PCT WO 2005/087307	PCT WO 2005/087307		p-2005	Einav et al.				
	67	PCT WO 2005/105203		10-No	v-2005	Einav et al.				
	68	PCT WO 2006/021952			ar-2006	Einav et al.				
	69	PCT WO 2006/061834			n-2006	Einav et al.				
	70	PCT WO 2006/082584		10-Aı	ıg-2006	Einav et al.				
_	71	PCT WO 98/37926		03-Se	p-1998	Schulman et al.			<u> </u>	
	72	PCT WO 98/43700		08-Oc	t-1998	Schulman et al.				
	73	PCT WO 98/43701		08-Oc	t-1998	Schulman et al.				
	74	PCT WO 98/46127		22-00	:t-1998	Allum				
									<u> </u>	
									1_	
									1_	
									1_	
									\perp	
									\bot	
		-							1	

Examiner	Date	
Signature	Considered	

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional).

² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

 $^{^{3}}$ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

U.S.Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Complete if Known Substitute for form 1449A/PTO Application Number 10/597,635 INFORMATION DISCLOSURE Filing Date August 2, 2006 STATEMENT BY APPLICANT First Named Inventor Omer EINAV Not Yet Available Group Art Unit (use as many sheets as necessary) Examiner Name Not Yet Available Attorney Docket Number 34636 Sheet Of OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Examiner Cite item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), T^2 Initials No.1 publisher, city and/or country where published. 75 Backlife "The Backlife Idea", Product Information, http://www.backlife.com, 27 P., 2003. Bak "The Complex Motion of Standing Still. Hydraulics, Sensors, and Human 76 Modeling Dsta-Unified by Proprietary Software", http://www.designnews.com/article/CA73202, 5 P., 2001. Burgar et al. "Development of Robots for Rehabilitation Therapy: The Palo Alto 77 VA/Stanford Experience", Journal of Rehabilitation Research and Development, 37(6): 663-673, 2000. Cameron et al. "Micromodular Implants to Provide Electrical Stimulation of 78 Paralyzed Muscles and Limbs", IEEE Transactions on Biomedical Engineering,

Graupe "EMG Pattern Analysis for Patient-Responsive Control of FES in

Specifications Document, NOKs Technologies, Version 1.0, 16 P., 2004. Micromedical "BalanceQuest: Computerized Dynamic Posturography",

Micromedical Technologies, http://www.micromedial.com, 6 P., 2001. Motek "Motek Medical Rehabilitation: Rehabilitation", http://www.e-

h Col., Paragraph 1, Fig.1, P.1833, r-h Col., Paragraph 1.

Perception and Performence, 17: 32-53, 1995. Abstract.

Peasgood et al. "EMG-Controlled Dosed Loop Electrical Stimulation Using A

Digital Signal Processor", Electronics Letters, 36(22): 1832-1833, 2000. P.1832, 1-

Richardson et al. "Comparing Smooth Arm Movement With the Two-Thirds Power

Viviani et al. "Minimum-Jerk, Two-Thirds Power Law, and Isochrony: Converging

Approaches to Movement Planning", Journal of Experimental Psychology: Human

Date

Considered

Pfurtscheller et al. "Brain Oscillations Control Hand Orthosis in A Tetraplegic",

Paraplegics for Walker-Supported Walking", IEEE Transactions on Biomedical Engineering, 36(7): 711-719, 1989. P.711, l-h Col., Paragraph 1 -r-h Col.,

Messinger "ReAbility Games: Island Hunt Catch'em Patrol Muzment", Detailed

* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not	t considered.
Include copy of copy of this form with next communication to applicant.	

Law and the Related Segmented-Control Hypothesis", The Journal of

79

80

81

82

83

84

85

86

Examiner

Signature

motek.com>, 1 P.

44(9): 781-790, 1997. Abstract.

Paragraph 1, Figs. 3, 5, P.716, I-h Col., Figs.

Neuroscience Letters, 292: 211-214, 2000.

Neuroscience, 22(18): 8201-8211, 2002.

¹ Applicant's unique citation designation number (optional).

² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO					Complete if Known				
					Application Number	10/597,635	10/597,635		
INFORMATION DISCLOSURE					Filing Date	August 2, 2			
STATEMENT BY APPLICANT					First Named Inventor	Omer EINA	Omer EINAV		
(use as many sheets as necessary)					Art Unit	Not Yet Av	Not Yet Available		
					Examiner Name	Not Yet Av	ailable		
Sheet		5	Of	5	Attorney Docket Number	34636			
		OTHER PRIC	OR AI	RT - NON PATE	NT LITERATURE DOCU	JMENTS			
Examiner	Cite				ERS), title of the article (when ap		the		
Initials*	No. 1	item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.							
	87	Viviani et al. '	'Trajec		Novement Dynamics", The	Journal of			
		Neuroscience,	7: 431	-437, 1982.					
							-		
		-							
							*		
					,				
							-		
Examiner	·				Date				

Considered

Signature

^{*} EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional).

² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3).

⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible.

⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.